SEQUENCE LISTING

<110> Deneris, Evan S.
Fyodoro, Dmitry V.
Hendricks, Timothy J.

<120> Reagents and Methods for the Screening of Compounds
Useful in the Treatment of Neurological Diseases

<130> CASE-04027

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<150> 09/360,779
<151> 1999-07-26

<160> 23

<170> PatentIn Ver. 2.0

<210> 1
<211> 1752
<212> DNA
<213> Rattus norvegicus

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aacatcaagt gtattcatga accgtgagta tcttcatgta aacagttcta g atg gaa 117
Met Glu
1

gac cca ggt ggc gct cct ctg ggg gag agg gtt cca gcc ccc cac ccc 165
Asp Pro Gly Gly Ala Pro Leu Gly Glu Arg Val Pro Ala Pro His Pro
5 10 15

cct cag ccc cat ccc ctc aca gct cac tcc tcc agt aca ccg gca ccg 213
Pro Gln Pro His Pro Leu Thr Ala His Ser Ser Ser Thr Pro Ala Pro
20 25 30

gga tgg gct ggg atg cag ctc cag gac ccc ctc cct cct cac cac acc 261
Gly Trp Ala Gly Met Gln Leu Gln Asp Pro Leu Pro Pro His His Thr
35 40 45 50

ctg gct gcc cgc tcc cgc cag gcc ttg ccg gac ccg gcg gcg tct act 309
Leu Ala Ala Arg Ser Arg Gln Ala Leu Pro Asp Pro Ala Ala Ser Thr
55 60 65

ctt ccc tgt cac cca cag tca cca cgg gcg ggt atc ggc acc cca agc 357
Leu Pro Cys His Pro Gln Ser Pro Arg Ala Gly Ile Gly Thr Pro Ser
70 75 80

gca aag ctg acg tgc ccc ccc gtg cgg tcc ccc cca tct ccc acc gcc 405
Ala Lys Leu Thr Cys Pro Pro Val Arg Ser Pro Pro Ser Pro Thr Ala
85 90 95

cag tcc ccg gca gcg atg aga cag agc ggc acc tcc cag ccc ctg ctg 453
Gln Ser Pro Ala Ala Met Arg Gln Ser Gly Thr Ser Gln Pro Leu Leu
100 105 110

atc aac atg tac cta cca gat ccc gtc gga gat ggt ctt ttt aag gaa 501
Ile Asn Met Tyr Leu Pro Asp Pro Val Gly Asp Gly Leu Phe Lys Glu
115 120 125 130

ggg aag agc ccg agc tgg ggg ccg ctg agc cct gcg gta cag aaa ggc 549
Gly Lys Ser Pro Ser Trp Gly Pro Leu Ser Pro Ala Val Gln Lys Gly
135 140 145

agc ggg cag atc cag ttg tgg cag ttt cta ctg gag ctg ctg gca gac 597
Ser Gly Gln Ile Gln Leu Trp Gln Phe Leu Leu Glu Leu Leu Ala Asp
150 155 160

cgc gcg aac gcc ggc tgc atc gcg tgg gag ggc ggc cac ggc gag ttc 645
Arg Ala Asn Ala Gly Cys Ile Ala Trp Glu Gly Gly His Gly Glu Phe
165 170 175

aag ctc acc gac ccc gac gag gtg gcg cga cgc tgg ggc gag cgc aag 693
Lys Leu Thr Asp Pro Asp Glu Val Ala Arg Arg Trp Gly Glu Arg Lys
180 185 190

agc aag ccc aat atg aac tac gac aag cta agt cga gca ctg cgc tac 741
Ser Lys Pro Asn Met Asn Tyr Asp Lys Leu Ser Arg Ala Leu Arg Tyr
195 200 205 210

tac tac gac aaa aac atc atg agc aag gtg cac ggc aag cgc tac gcc 789
Tyr Tyr Asp Lys Asn Ile Met Ser Lys Val His Gly Lys Arg Tyr Ala
215 220 225

tac cgc ttt gac ttc cag ggc ctg gca cag gct tgc cag cca cca ccc 837
Tyr Arg Phe Asp Phe Gln Gly Leu Ala Gln Ala Cys Gln Pro Pro Pro
230 235 240

gcg cac gcc cac gcc gcc gct gcc gcc gcc gca gcg gca gcc gcc gcc 885
Ala His Ala His Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
245 250 255

cag gat ggc gca ctt tac aag ctc ccg gct ggt ctg gct cca ctg ccc 933
Gln Asp Gly Ala Leu Tyr Lys Leu Pro Ala Gly Leu Ala Pro Leu Pro
260 265 270

ttc ccc ggc ctc tcc aaa ctc aac ctt atg gca gcc tcg gcc ggc gtg 981
Phe Pro Gly Leu Ser Lys Leu Asn Leu Met Ala Ala Ser Ala Gly Val
275 280 285 290

gcg ccc gct ggc ttc tct tac tgg cct ggt ccc aac gcc acc gcc gct 1029
Ala Pro Ala Gly Phe Ser Tyr Trp Pro Gly Pro Asn Ala Thr Ala Ala
295 300 305

gcc gcc gcc acc gct gcg ctc tac cca acc ccg ggc ttg cag ccc cct 1077
Ala Ala Ala Thr Ala Ala Leu Tyr Pro Thr Pro Gly Leu Gln Pro Pro
310 315 320

ccc ggg ccc ttt ggc gcg gtg gcc gcc gct tcg cac ttg ggg ggt cat 1125
Pro Gly Pro Phe Gly Ala Val Ala Ala Ala Ser His Leu Gly Gly His
325 330 335

tat cac tagacgggac ggccgggtgc agtggggcct ctcccacaca gccagtgacc 1181
Tyr His
340

aatcccatcc tcatcctggg aggagccccg aagatttccc cgacgttcct ttaccacaga 1241

tttcgttgca gcagccgctc ccagcccagg gaagaaagga tgggaagcct ctgaggtctt 1301

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atctctgctg ttgtccatcc ctatcccaac actctggctt cgctcccttc cataccacac 1661

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caaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1752

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<212> PRT
<213> Rattus norvegicus

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Ala Pro Gly Trp Ala Gly Met Gln Leu Gln Asp Pro Leu Pro Pro His
35 40 45

His Thr Leu Ala Ala Arg Ser Arg Gln Ala Leu Pro Asp Pro Ala Ala
50 55 60

Ser Thr Leu Pro Cys His Pro Gln Ser Pro Arg Ala Gly Ile Gly Thr
65 70 75 80

Pro Ser Ala Lys Leu Thr Cys Pro Pro Val Arg Ser Pro Pro Ser Pro
85 90 95

Thr Ala Gln Ser Pro Ala Ala Met Arg Gln Ser Gly Thr Ser Gln Pro
100 105 110

Leu Leu Ile Asn Met Tyr Leu Pro Asp Pro Val Gly Asp Gly Leu Phe
115 120 125

Lys Glu Gly Lys Ser Pro Ser Trp Gly Pro Leu Ser Pro Ala Val Gln
130 135 140

Lys Gly Ser Gly Gln Ile Gln Leu Trp Gln Phe Leu Leu Glu Leu Leu
145 150 155 160

Ala Asp Arg Ala Asn Ala Gly Cys Ile Ala Trp Glu Gly Gly His Gly
165 170 175

Glu Phe Lys Leu Thr Asp Pro Asp Glu Val Ala Arg Arg Trp Gly Glu
180 185 190

Arg Lys Ser Lys Pro Asn Met Asn Tyr Asp Lys Leu Ser Arg Ala Leu
195 200 205

Arg Tyr Tyr Tyr Asp Lys Asn Ile Met Ser Lys Val His Gly Lys Arg
210 215 220

Tyr Ala Tyr Arg Phe Asp Phe Gln Gly Leu Ala Gln Ala Cys Gln Pro
225 230 235 240

Pro Pro Ala His Ala His Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
245 250 255

Ala Ala Gln Asp Gly Ala Leu Tyr Lys Leu Pro Ala Gly Leu Ala Pro
260 265 270

Leu Pro Phe Pro Gly Leu Ser Lys Leu Asn Leu Met Ala Ala Ser Ala
275 280 285

Gly Val Ala Pro Ala Gly Phe Ser Tyr Trp Pro Gly Pro Asn Ala Thr
290 295 300

Ala Ala Ala Ala Ala Thr Ala Ala Leu Tyr Pro Thr Pro Gly Leu Gln
305 310 315 320

Pro Pro Pro Gly Pro Phe Gly Ala Val Ala Ala Ala Ser His Leu Gly
325 330 335

Gly His Tyr His
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<210> 3
<211> 11
<212> DNA
<213> Polyomavirus enhancer

<400> 3
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<210> 4
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<212> DNA
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<400> 4
agcaggaagt t 11

<210> 5
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<213> Mus musculus

<400> 5
agcgggaagt t 11

<210> 6
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<400> 6
gaaaggaaat a 11

<210> 7
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<212> DNA
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<400> 7
gataggaagt a 11

<210> 8
<211> 11
<212> DNA
<213> Mus musculus

<400> 8
cccaggaaat g 11

<210> 9
<211> 11
<212> DNA
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<400> 9
gggaggaaat g 11

<210> 10
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<212> DNA
<213> Homo sapiens

<400> 10
atacggaaat t 11

<210> 11
<211> 11
<212> DNA
<213> Mus musculus

<400> 11
tacaggatat a 11

<210> 12
<211> 11
<212> DNA
<213> Rattus norvegicus

<400> 12
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<210> 13
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<212> PRT
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<222> (1)
<223> The amino acid at this position can be isoleucine, valine, or leucine.

<220>
<221> SITE
<222> (2)
<223> The amino acid at this position can be glutamine, tyrosine, or threonine.

<220>
<221> SITE
<222> (5)
<223> The amino acid at this position can be glutamic acid or glutamine.

<220>
<223> Description of Artificial Sequence: Synthetic

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1 5

<210> 14
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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<222> (4)
<223> The amino acid at this position can be aspartic acid or glutamic acid.

<220>
<221> SITE
<222> (5)
<223> The amino acid at this position can be lysine or threonine.

<220>
<221> SITE
<222> (6)
<223> The amino acid at this position can be leucine or methionine.

<220>
<221> SITE
<222> (7)
<223> The amino acid at this position can be serine or glycine.

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 14
Met Asn Tyr Xaa Xaa Xaa Xaa
1 5

<210> 15
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

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<210> 16
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 16
cccggtacck kshkaktktk tcgtagttca t 31

<210> 17
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 17
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1 5

<210> 18
<211> 15
<212> DNA
<213> Polyomarvirus enhancer

<220>
<223> Description of Artificial Sequence: Synthetic

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gatccaggaa gtgac 15

<210> 19
<211> 15
<212> DNA
<213> Polyomarvirus enhancer

<400> 19
gtcacttcct ggatc 15

<210> 20
<211> 15
<212> DNA
<213> Polyomarvirus enhancer

<400> 20
gatccatcaa gtgac 15

<210> 21
<211> 15
<212> DNA
<213> Polyomarvirus enhancer

<400> 21
gtcacttgat ggatc 15

<210> 22
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 22
caggaagtga ctcaggaagt gactcaggaa gtgacac 37

<210> 23
<211> 37
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 23
catcaagtga ctcatcaagt gactcatcaa gtgacac 37